

Pvs28 Nucleotide Sequence

[illegible]

FIGURE 2**Pvs28 Amino Acid Sequence**

N-terminal-

MNTYHSLFLLAIVLTVKHTEFAKVTAEQCKNGYVQMSNHFECKCNDGFVMANENTCEEKRDCTNPQNVNKNCGDYAVCA
NTRMNDEERALRCGCILGYTVMNEVCTPNKCNGVLCGKGKCILDPANVNSTMCSNIGTTLDESKCGKPGKTECTLKCKANE
ECKETQNYKCVAKGSGGEGSGGEGSGGGGTGAA YSLMNGSAVISILLVFAFFMMSLV

-C-terminal

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FIGURE 3**Pvs25 Nucleotide Sequence**

5'- CTGACTTTCGTTTCACAGCACTGATTTTTTTGTTTCGACCGCTCAATTCGC
CACTTGCCATTTCGATTGTTTGCTTGTGCTTTTGTCTTATTCGCCC
GTTTTCCGCTTGCCCGTTCGCCCGCTCCACAACGCGCGCTGC AAAAGGT
TGCCCAACCACCGACCACAAAACCTTATTCACCACTCCGAGCGGAAAGG
AACGCCCCACTGTGCTGCTACCTCCCCGAATAACAACCTCCACTTAGC
CAAAATGAACCTCTACTACAGCCTCTTCGTTTTTTTCTCTGTCCAAATTG
CGCTAAAGTATAGCAAGGACGCCGTACGGTAGACACCATATGCAAAAAT
GGACAGCTGTTCAATGAGTAACCACTTTAAGTGTATGTGTAAACGAAGG
GCTGTGCACCTTCCGAAAATACATGTGAAGAAAAAATGAATGCAAGA
AAGAAACCCCTAGGCAAGCATGCGGGGAATTTGGCCAGTGTATAGAAAAC
CCAGACCCAGCACAGGTAAACATGTACAAATGTGGTTGCATTGAGGGCTA
CACTTTGAAGGAAGACACTTGTGTGCTTGATGTATGTCAATACAAAATT
GTGGAGAAAAGTGGCGAATGCATTGTTGAGTACCTCTCGGAAATCCAAAGT
GCAGGTGCTCATGTGCTATTGGCAAAAGTCCCCAATCCAGAAAGATGAGAA
AAAATGTACCAAAACGGGAGAACTGCTTGTCAATTGAATGTAAACACAG
ATAATGAAGTCTGCAAAAATGTTGAAGGAGTTTACAAGTCCAGTGTATG
GAAGGCTTTACGTTTCGACAAAGAGAAAATGTATGCCCTTTCCTATTCTGT
ATTTAACAATCCTAACTACTCCCTCTTCTTTATCATCCTGCTGTGCTTT
CGTACGTCATATAAGTGCAGAACTTGGCAGCTAAGCAGCGCAAAATTTT
TAAGTTAAAATACTTTTCTTTACTGAACCTTACCGACTTGTGATGT
-3'

FIGURE 4**Pvs25 Amino Acid Sequence**

N-terminal-
MNSYYSLFVFFLVQIALKYSKAAVTVDTICKNGQLVQMSNHFKCMCNEGL
VHLSNTCEEKNECKKETLGKACGEFGQCIENPDPAQVNNMYKCGCIEGYT
LKEDTCVLDVCQYKNCGESGECIVEYLSEIQSAGCSAIGKVPNPEDEKK
CTKTGETACQLKCNVDNEVCKNVEGVYKCQCMEGFTFDKEKNVCLSYSVF
NILNYSLFFIILLVLSYVI
-C-terminal

FIGURE 5

Pvs25-Pvs28 Fusion Protein Amino Acid Sequence

N-terminal -

AVTVDTICKNGQLVQMSNHFKCMCNEGLVHLSSENTCEEKNECKKETLGKACGEFGQCIENTPDAQVNMVYKCGCIEGYTLKED
TCVLDVCQYKNCGESGECIVEYLSEIQSAGCSAIGKVPNPEDEKKCTKTGETACQLKCNCTDNEVCKNVEGVYKQCQCMEGFTF
DKEKNVCLS GGGPGGG AKVTAETQCKNGYVVQMSNHFECKCNDGFVMANENTCEEKRDCTNPQNVNKNCGDYAVCANT
RMNDEERALRCGILGYTVMNEVCTPNKCNGLCGKGKCLDPANVNSTMCSCNIGTTLDESKKCGKPGKTECTLKCKANEEC
KETQNYKCVAKSGGEGSGGEGSGGEGSGGGTGAAYSLMN

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-C-terminal

GGGPGGG linker sequence underlined.

Figure 6^{6 / 7}

EEAEASAVTVDTICKNQLVQMSHHFKCMNEGLVHLSENTECKNECKKET 50
LGKACGEFGQCIENPDPAQVMYKCGCIEGYTLKEDTCVLVDVQYKNCGES 100
GECIVEYLSEIQSAGSCSAIGKVPPEDEKKCTKTGETACQLKCNTDNEVC 150
KNVEGYKQCQCMEGFTFCKEKNVCLGPHHHHH 186 (SEQ ID NO: 16)

EAEASKVTAETQCKNGYVVQMSNHFECKNCNDGFLANENTCEEKRDCTNP 50
 QNVNKNCGDYAVCANTRMNEERALRCGCILGYTMNEVCTPYKNGVLC 100
 GKKGKILDPANVNSTMCSNIGSTLDESKCKGPKGKTECTLCKANECK 150
 ETQNYVKVAKSGGEGSGGEGSGGEGSGGEGSGGEGSGGDTGAAYSGPH 200
 HHHHH 205 (SEQ ID NO:17)

EAEASKVTAETQCKNGYVVQMSNHFECKNDGFLANENT'CEEKRDCTNP 50
 QNVNKNCGDYAVCANTRMNEERALRCGILGYTVNNEVCTPYKCNGLC 100
 GKGCILDPANVQSTMCSNIGSTLDESKKCGPKTECTLCKANECECK 150
 ETQNYKCVAKSGGEGSGGEGSGGEGSGGEGSGGEGSGGDTGAAYSGPH 200
 HHHHH 205 (SEQ ID NO: 18)

EAEASKVTAETQCKNGYVQMSNHFECKNDGFLVANENTCEEKRDCTNP 50
QNVNKNCGDYAVCANTRMNEERALPCGCILGYTVMNEVCTPYKCNGLVC 100
GKGKCILDPAVNSTMCSCNIGSTILDFSKKCGKPGKTECTLCKKANECK 150
ETQNYKCVAKGPHHHH 169 (SE0 ID NO:19)

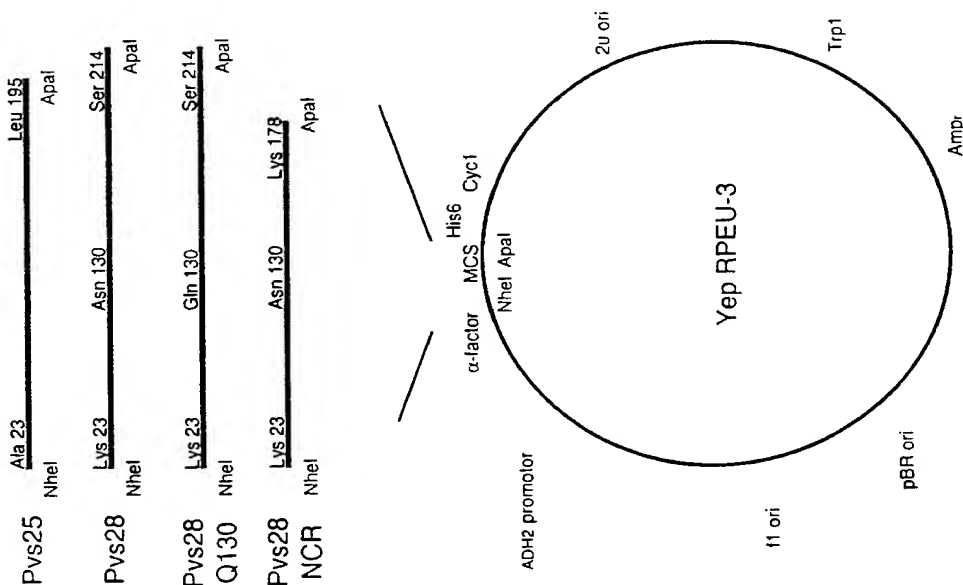


Figure 7

Experimental protocol for immunization with Pvs25 and Pvs28

